



(425) 420-9200 X 420-9210
(509) 924-9200 X 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

Work Order #: M106024 P160878

CLIENT: Bristol			INVOICE TO: Bristol										TURNAROUND REQUEST in Business Days*				
REPORT TO: Anne Krammether			P.O. NUMBER: 21090										Organic & Inorganic Analyses				
ADDRESS: Anchitha Island, AK													10	7	5	4	3
PHONE: 770-0974			FAX: 770-0975										STD. Petroleum Hydrocarbon Analyses				
PROJECT NAME: Anchitha			REQUESTED ANALYSES										STD. <input type="text" value="5"/> <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="1"/> <input type="text" value="1"/>				
PROJECT NUMBER: 21090			OTHER <input type="text" value=""/>										Please Specify				
SAMPLED BY: ARK/CRM													*Turnaround Requests less than standard may incur Rush Charges.				
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WORK ID
1. 01AMRX 21SL		6/9/01 1710		✓ ✓										S	2	RXT14SL	
2. 01AMRX 22SL		6/9/01 1715		✓ ✓										S	2	RXT15SL	
3. 01AMRX 23SL		6/9/01 1720		✓ ✓										S	2	RXT16SL	
4. 01AMRX 24SL		6/9/01 1725		✓ ✓										S	2	RXT17SL	
5. 01AMRX 25SL		6/9/01		✓ ✓										S	2		
6. 01AMRX 26SL		6/9/01		✓ ✓										S	2		
7. 01AMRX 27SL		6/9/01 1730		✓										S	1	RXT18SL	
8. 01AMRX 28SL		6/9/01 1735		✓ ✓										S	2	RXT19SL	
9. 01AMRX 29SL		6/9/01 1740		✓ ✓										S	2	RXT20SL	
10.																	
11.		Changed to RXT14SL - RXT20SL															
12.																	
13.																	
14.																	
15.																	
RELINQUISHED BY: Charlie Marshall			DATE: 6/9/01			RECEIVED BY: Craig Bradle			DATE: 6/9/01								
PRINT NAME: Charlie Marshall			FIRM: Bristol			PRINT NAME: Craig Bradle			FIRM: NCA								
RELINQUISHED BY:			DATE:			RECEIVED BY:			DATE:								
PRINT NAME:			FIRM:			PRINT NAME:			FIRM:								
ADDITIONAL REMARKS: Transformer Excavator metals Ag, Se, Hg, Ba, Cd, Co, Ni, Pb, Cu																	
COC REV 3/99																	

COC 184

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 420-9210
(509) 924-9200 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: **PLG0878**

CLIENT: ERISOL		INVOICE TO: BRISTOL												TURNAROUND REQUEST in Business Days*			
REPORT TO: ANNE KIRANAUWETTER		P.O. NUMBER: 21090												Organic & Inorganic Analyses			
ADDRESS: ANCHITKA, AK														10 7 5 4 3 2 1 <1			
PHONE: 907-770-0974 FAX: 770-0975		REQUESTED ANALYSES												STD. Petroleum Hydrocarbon Analyses			
PROJECT NAME: ANCHITKA														5 4 3 2 1 <1			
PROJECT NUMBER: 21090														OTHER Please Specify			
SAMPLED BY: KP/ARK														*Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PAHs												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMC303SL	7/20/01 1325	X												S	1		
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	
RELINQUISHED BY: Mike Peterson		FIRM: Bristol		DATE: 7/20/01		TIME: 1528		RECEIVED BY: Stephen Karl		FIRM: NCA		DATE: 0720		TIME: 1578			
RELINQUISHED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:			
PRINT NAME:		FIRM:		DATE:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:			
ADDITIONAL REMARKS:																TEMP:	PAGE 1 OF 1



FAX 382-7588

Work Order #: P1 60878

COC REV 3/99



(541) 383-9310, FAX 382-7588

Work Order #: M107044

CLIENT: BRISTOL		INVOICE TO: BRISTOL		TURNAROUND REQUEST in Business Days*							
REPORT TO: ANNE KRANAWETTER				Organic & Inorganic Analyses							
ADDRESS: AMCHITKA, AK				10 7 5 4 3 2 1 <1							
PHONE: 907-770-0974 FAX: 770-0975		P.O. NUMBER: 21090		STD. 5 4 3 2 1 <1							
PROJECT NAME: AMCHITKA		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses							
PROJECT NUMBER: 21090				STD. 5 4 3 2 1 <1							
SAMPLED BY: Anne				OTHER Please Specify							
				*Turnaround Requests less than standard may incur Rush Charges.							
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		MATRIX (W, S, O)		# OF CONT.		COMMENTS		NCA WORK ID	
1. 01AMRX 28SL		7/22/01 1055		S		1		01AMRX01SL			
2.								sample number changed to above			
3.								AK			
4.								11/20/01			
5.											
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
RELINQUISHED BY: Anne Kranawetter		DATE: 7/22/01		RECEIVED BY: Stephen K. '12		DATE: 7/22/01					
PRINT NAME: Anne Kranawetter		FIRM: BRISTOL		PRINT NAME: Stephen K. '12		FIRM: NCA					
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:					
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:					
ADDITIONAL REMARKS: Background metals (Silver, Selenium, mercury, As, Ba, Cd, Cr, Ni, Pb, V)		TEMP:		PAGE		OF					



Seattle 11720 N Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.426 fax 425.420.9210
Spokane East 11115 ...ontgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

25 October, 2001

Steve Johnson
Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are **amended** results of analyses for samples received by the laboratory on 07/26/01 12:00. If you have any questions concerning this report, please feel free to contact me. These results supercede all previous results reported by the laboratory.

Sincerely,

Jerry Orlando
Project Manager/QA

Work Orders included in this report:
P1G0878

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Steve Johnson


Amended Report
Issued: 10/25/01 12:23

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMRXT15SL	P1G0878-01	Soil	06/09/01 17:15	07/26/01 12:00
01AMC303SL	P1G0878-02	Soil	07/20/01 13:25	07/26/01 12:00
01AMC526SL-A	P1G0878-03	Soil	07/20/01 14:40	07/26/01 12:00
01AMRX01SL	P1G0878-04	Soil	07/22/01 10:55	07/26/01 12:00

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 1 of 14

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson


Amended Report
 Issued: 10/25/01 12:23

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT15SL (P1G0878-01) Soil						Sampled: 06/09/01 Received: 07/26/01			
Arsenic	ND	0.500	mg/kg dry	1	EPA 6020	07/28/01	08/01/01	1071826	
Barium	92.2	1.00	"	10	"	"	07/31/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	66.6	0.500	"	"	"	"	"	"	
Lead	2.98	0.500	"	"	"	"	"	"	
Nickel	68.8	1.00	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
Vanadium	230	2.50	"	1	"	"	"	"	
01AMRX01SL (P1G0878-04) Soil						Sampled: 07/22/01 Received: 07/26/01			
Nickel	69.2	51.9	mg/kg dry	10	EPA 6020	08/15/01	08/16/01	1081413	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 2 of 14



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420 fax 425.420.9210
Spokane East 1111 W. Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/25/01 12:23

Mercury by EPA Method 1631
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT15SL (P1G0878-01) Soil						Sampled: 06/09/01 Received: 07/26/01			
Mercury	0.00177	0.000500	mg/kg dry	1	EPA 1631	07/31/01	08/01/01	1071910	I-05

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Jerry Orlando, Project Manager/QA

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/25/01 12:23


Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC303SL (P1G0878-02) Soil						Sampled: 07/20/01 Received: 07/26/01		R-05	
Acenaphthene	ND	670	ug/kg dry	50	EPA 8270m	07/31/01	08/03/01	1071915	R-03
Acenaphthylene	ND	670	"	"	"	"	"	"	R-03
Anthracene	ND	670	"	"	"	"	"	"	R-03
Benzo (a) anthracene	ND	26.8	"	2	"	"	08/02/01	"	
Benzo (a) pyrene	ND	26.8	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	26.8	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	26.8	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	26.8	"	"	"	"	"	"	
Chrysene	36.2	26.8	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	26.8	"	"	"	"	"	"	
Fluoranthene	ND	670	"	50	"	"	08/03/01	"	R-03
Fluorene	ND	3350	"	"	"	"	"	"	R-03
Indeno (1,2,3-cd) pyrene	ND	26.8	"	2	"	"	08/02/01	"	
Naphthalene	ND	1340	"	50	"	"	08/03/01	"	R-03
Phenanthrene	2600	670	"	"	"	"	"	"	
Pyrene	52.5	26.8	"	2	"	"	08/02/01	"	
Surr: Fluorene-d10	NR	40-150							S-01
Surr: Pyrene-d10	NR	40-150							S-02
Surr: Benzo (a) pyrene-d12	95.6 %	40-150							

01AMC526SL-A (P1G0878-03) Soil						Sampled: 07/20/01 Received: 07/26/01		R-05	
Acenaphthene	2390	1680	ug/kg dry	125	EPA 8270m	07/31/01	08/03/01	1071915	
Acenaphthylene	ND	1680	"	"	"	"	"	"	R-03
Anthracene	ND	1680	"	"	"	"	"	"	R-03
Benzo (a) anthracene	ND	67.0	"	5	"	"	08/02/01	"	
Benzo (a) pyrene	ND	67.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	69.1	67.0	"	"	"	"	"	"	R-08
Benzo (ghi) perylene	ND	67.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	67.0	"	"	"	"	"	"	R-08
Chrysene	94.2	67.0	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	67.0	"	"	"	"	"	"	
Fluoranthene	ND	1680	"	125	"	"	08/03/01	"	R-03
Fluorene	5360	1680	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	67.0	"	5	"	"	08/02/01	"	
Naphthalene	7150	1680	"	125	"	"	08/03/01	"	
Phenanthrene	4900	1680	"	"	"	"	"	"	
Pyrene	643	67.0	"	5	"	"	08/02/01	"	
Surr: Fluorene-d10	NR	40-150							S-01

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson


Amended Report
 Issued: 10/25/01 12:23

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC526SL-A (P1G0878-03) Soil						Sampled: 07/20/01 Received: 07/26/01		R-05	
Surr: Pyrene-d10	NR	40-150							S-02
Surr: Benzo (a) pyrene-d12	121 %	40-150							
01AMRX01SL (P1G0878-04) Soil						Sampled: 07/22/01 Received: 07/26/01		R-01,R-05	
Acenaphthene	ND	242	ug/kg dry	2	EPA 8270m	07/31/01	08/03/01	1071915	
Acenaphthylene	ND	242	"	"	"	"	"	"	
Anthracene	ND	242	"	"	"	"	"	"	
Benzo (a) anthracene	ND	242	"	"	"	"	"	"	
Benzo (a) pyrene	ND	242	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	242	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	242	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	242	"	"	"	"	"	"	
Chrysene	ND	242	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	242	"	"	"	"	"	"	
Fluoranthene	ND	242	"	"	"	"	"	"	
Fluorene	ND	242	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	242	"	"	"	"	"	"	
Naphthalene	ND	242	"	"	"	"	"	"	
Phenanthrene	ND	242	"	"	"	"	"	"	
Pyrene	ND	242	"	"	"	"	"	"	
Surr: Fluorene-d10	90.6 %	40-150							
Surr: Pyrene-d10	141 %	40-150							
Surr: Benzo (a) pyrene-d12	72.8 %	40-150							

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 5 of 14

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Steve Johnson


Amended Report
Issued: 10/25/01 12:23

Percent Dry Weight (Solids) per Standard Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT15SL (P1G0878-01) Soil						Sampled: 06/09/01 Received: 07/26/01			
% Solids	81.9	1.00	% by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	I-05
01AMC303SL (P1G0878-02) Soil						Sampled: 07/20/01 Received: 07/26/01			
% Solids	88.1	1.00	% by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	
01AMC526SL-A (P1G0878-03) Soil						Sampled: 07/20/01 Received: 07/26/01			
% Solids	75.7	1.00	% by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	
01AMRX01SL (P1G0878-04) Soil						Sampled: 07/22/01 Received: 07/26/01			
% Solids	21.4	1.00	% by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 6 of 14

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/25/01 12:23

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1071826 - EPA 3050

Blank (1071826-BLK1)

Prepared: 07/28/01 Analyzed: 08/01/01

Arsenic	ND	0.500	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.500	"
Chromium	ND	0.500	"
Lead	ND	0.500	"
Nickel	ND	1.00	"
Selenium	ND	0.500	"
Silver	ND	0.500	"
Vanadium	ND	2.50	"

LCS (1071826-BS1)

Prepared: 07/28/01 Analyzed: 08/01/01

Arsenic	10.2	0.500	mg/kg	10.0	102	80-120
Barium	11.4	1.00	"	10.0	114	80-120
Cadmium	11.2	0.500	"	10.0	112	80-120
Chromium	11.4	0.500	"	10.0	114	80-120
Lead	10.9	0.500	"	10.0	109	80-120
Nickel	11.8	1.00	"	10.0	118	80-120
Selenium	11.1	0.500	"	10.0	111	80-120
Silver	5.40	0.500	"	5.00	108	80-120
Vanadium	10.8	2.50	"	10.0	108	80-120

Duplicate (1071826-DUP1)


Source: P1G0869-01

Prepared: 07/28/01 Analyzed: 08/01/01

Arsenic	5.07	0.500	mg/kg dry	4.60	9.72	40
Barium	232	1.00	"	211	9.48	40
Cadmium	ND	0.500	"	ND		40
Chromium	30.4	0.500	"	27.1	11.5	40
Lead	18.2	0.500	"	16.3	11.0	40
Nickel	23.7	1.00	"	22.4	5.64	40
Selenium	ND	0.500	"	ND		40
Silver	ND	0.500	"	ND	21.4	40
Vanadium	152	2.50	"	136	11.1	40

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 7 of 14

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/25/01 12:23

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1071826 - EPA 3050

Matrix Spike (1071826-MS1)		Source: P1G0869-01		Prepared: 07/28/01		Analyzed: 08/01/01				
Arsenic	18.3	0.500	mg/kg dry	12.9	4.60	106	75-125			
Barium	242	1.00	"	12.9	211	NR	75-125			Q-02
Cadmium	15.2	0.500	"	12.9	ND	118	75-125			
Chromium	49.7	0.500	"	12.9	27.1	175	75-125			Q-02
Lead	34.3	0.500	"	12.9	16.3	140	75-125			Q-02
Nickel	41.6	1.00	"	12.9	22.4	149	75-125			Q-02
Selenium	14.1	0.500	"	12.9	ND	109	75-125			
Silver	7.86	0.500	"	6.44	ND	121	75-125			
Vanadium	170	2.50	"	12.9	136	NR	75-125			Q-03

Batch 1081413 - EPA 3050

Blank (1081413-BLK1)				Prepared: 08/15/01		Analyzed: 08/16/01				
Nickel	ND	1.00	mg/kg							
LCS (1081413-BS1)				Prepared: 08/15/01		Analyzed: 08/16/01				
Nickel	17.2	1.00	mg/kg	20.0		86.0	80-120			Q-18
Duplicate (1081413-DUP1)		Source: P1G0131-01		Prepared: 08/15/01		Analyzed: 08/16/01				
Nickel	11.1	1.00	mg/kg dry		11.4			2.67	40	
Matrix Spike (1081413-MS1)		Source: P1G0131-01		Prepared: 08/15/01		Analyzed: 08/16/01				
Nickel	34.9	1.00	mg/kg dry	21.9	11.4	107	75-125			Q-18

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 8 of 14



Seattle 11720 N Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.42L fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/25/01 12:23

Mercury by EPA Method 1631 - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1071910 - Metals

Blank (1071910-BLK1)

Prepared: 07/31/01 Analyzed: 08/01/01

Mercury ND 0.000500 mg/kg

LCS (1071910-BS1)

Prepared: 07/31/01 Analyzed: 08/01/01

Mercury 0.00535 0.000500 mg/kg 0.00500 107 85-115

Duplicate (1071910-DUP1)

Source: P1G0878-01

Prepared: 07/31/01 Analyzed: 08/01/01

Mercury 0.00202 0.000500 mg/kg dry 0.00177 13.2 20

Matrix Spike (1071910-MS1)

Source: P1G0878-01

Prepared: 07/31/01 Analyzed: 08/01/01

Mercury 0.00849 0.000500 mg/kg dry 0.00611 0.00177 110 75-125

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/25/01 12:23

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1071915 - EPA 3550

Blank (1071915-BLK1)

Prepared: 07/31/01 Analyzed: 08/02/01

Acenaphthene	ND	13.4	ug/kg							
Acenaphthylene	ND	13.4	"							
Anthracene	ND	13.4	"							
Benzo (a) anthracene	ND	13.4	"							
Benzo (a) pyrene	ND	13.4	"							
Benzo (b) fluoranthene	ND	13.4	"							
Benzo (ghi) perylene	ND	13.4	"							
Benzo (k) fluoranthene	ND	13.4	"							
Chrysene	ND	13.4	"							
Dibenzo (a,h) anthracene	ND	13.4	"							
Fluoranthene	ND	13.4	"							
Fluorene	ND	13.4	"							
Indeno (1,2,3-cd) pyrene	ND	13.4	"							
Naphthalene	ND	13.4	"							
Phenanthrene	ND	13.4	"							
Pyrene	ND	13.4	"							
Surr: Fluorene-d10	47.3		"	83.3		56.8	40-150			
Surr: Pyrene-d10	72.9		"	83.3		87.5	40-150			
Surr: Benzo (a) pyrene-d12	69.8		"	83.3		83.8	40-150			

LCS (1071915-BS1)

Prepared: 07/31/01 Analyzed: 08/02/01

Acenaphthene	131	13.4	ug/kg	167		78.4	33-139			
Benzo (a) pyrene	150	13.4	"	167		89.8	45-149			
Pyrene	121	13.4	"	167		72.5	39-138			
Surr: Fluorene-d10	53.4		"	83.3		64.1	40-150			
Surr: Pyrene-d10	72.3		"	83.3		86.8	40-150			
Surr: Benzo (a) pyrene-d12	71.3		"	83.3		85.6	40-150			

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 10 of 14

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/25/01 12:23

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 1071915 - EPA 3550

Matrix Spike (1071915-MS1)

Source: P1G0783-06

Prepared: 07/31/01 Analyzed: 08/02/01

Acenaphthene	146	13.4	ug/kg dry	182	ND	80.2	33-139		
Benzo (a) pyrene	168	13.4	"	182	ND	92.3	45-149		
Pyrene	137	13.4	"	182	ND	75.3	39-138		
Surr: Fluorene-d10	57.4		"	91.2		62.9	40-150		
Surr: Pyrene-d10	81.7		"	91.2		89.6	40-150		
Surr: Benzo (a) pyrene-d12	78.5		"	91.2		86.1	40-150		

Matrix Spike Dup (1071915-MSD1)


Source: P1G0783-06

Prepared: 07/31/01 Analyzed: 08/02/01

Acenaphthene	149	13.4	ug/kg dry	182	ND	81.9	33-139	2.03	60
Benzo (a) pyrene	169	13.4	"	182	ND	92.9	45-149	0.593	60
Pyrene	135	13.4	"	182	ND	74.2	39-138	1.47	60
Surr: Fluorene-d10	57.5		"	91.2		63.0	40-150		
Surr: Pyrene-d10	79.2		"	91.2		86.8	40-150		
Surr: Benzo (a) pyrene-d12	78.4		"	91.2		86.0	40-150		

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of
 custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 11 of 14

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Steve Johnson

Amended Report
 Issued: 10/25/01 12:23

Percent Dry Weight (Solids) per Standard Methods - Quality Control

North Creek Analytical - Portland


Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1071779 - Dry Weight

Duplicate (1071779-DUP1)		Source: P1G0644-01		Prepared: 07/27/01		Analyzed: 07/30/01				
% Solids	90.3		1.00 % by Weight		90.1			0.222	20	
Duplicate (1071779-DUP2)		Source: P1G0893-01		Prepared: 07/27/01		Analyzed: 07/30/01				
% Solids	79.7		1.00 % by Weight		79.1			0.756	20	
Duplicate (1071779-DUP3)		Source: P1G0916-11		Prepared: 07/27/01		Analyzed: 07/30/01				
% Solids	89.1		1.00 % by Weight		88.7			0.450	20	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of
 custody document. This analytical report must be reproduced in its entirety.


 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 12 of 14

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Steve Johnson


Amended Report
Issued: 10/25/01 12:23

Notes and Definitions

- I-05 This sample was received outside EPA recommended holding time.
- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- Q-03 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- Q-18 See Nonconformance Report; data integrity has been impacted.
- R-01 The reporting limit for this analyte was raised to compensate for the limited sample quantity available for the analysis.
- R-03 The reporting limit for this analyte was raised due to matrix interference.
- R-05 Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
- R-08 Due to matrix unable to resolve Benzo(a)fluoranthene isomers. Value reported only in Benzo(b) category represents Total Benzo(b+k)fluoranthene.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 13 of 14



Seattle 11720 Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.426.4261 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Steve Johnson

Amended Report
Issued: 10/25/01 12:23

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 14 of 14